

Title: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

Inventors: ABE ET AL.

Atty Docket No.: 401263

Leydig, Voit & Mayer, Ltd.

202-737-6770

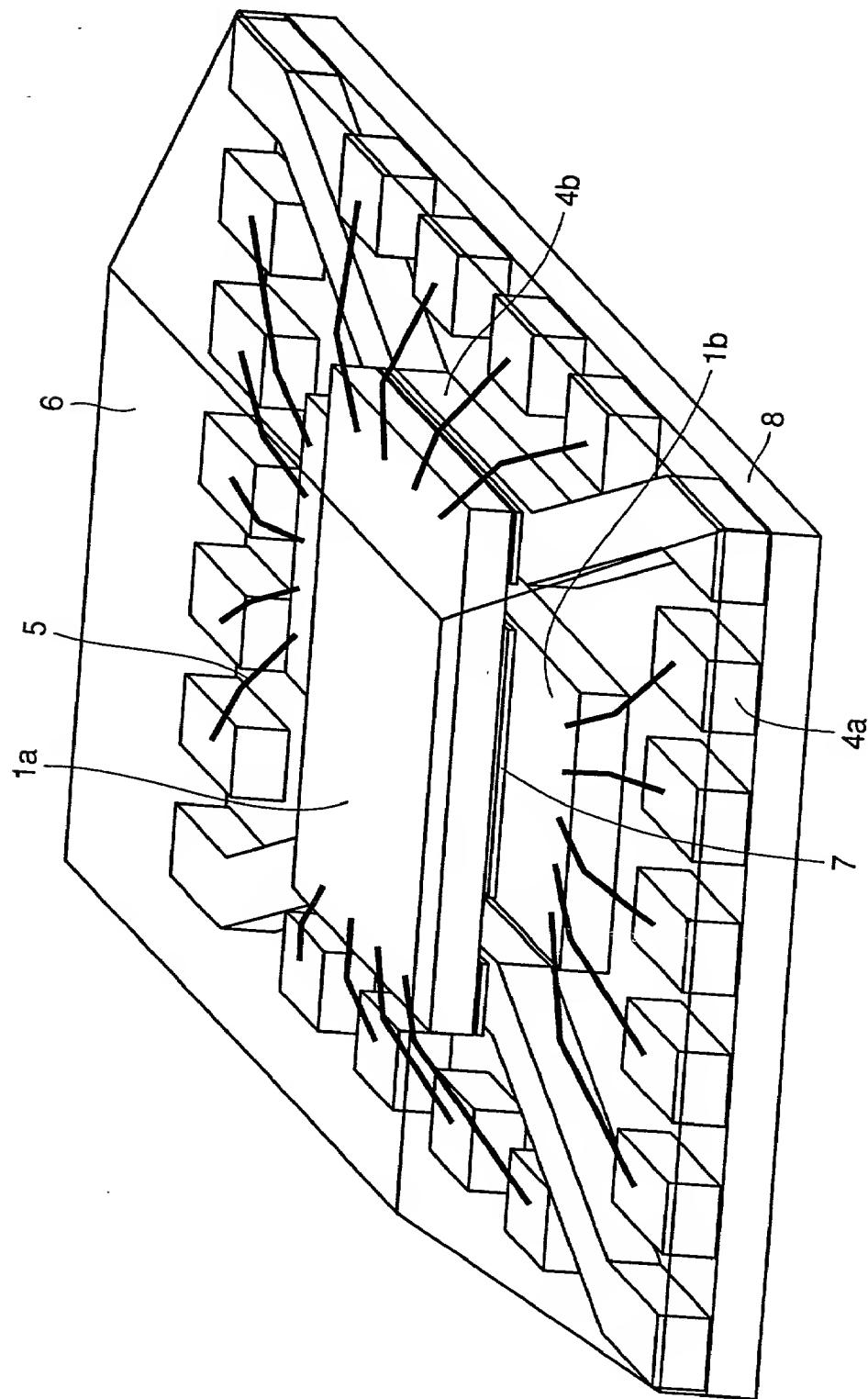


FIG. 1

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FIG. 2

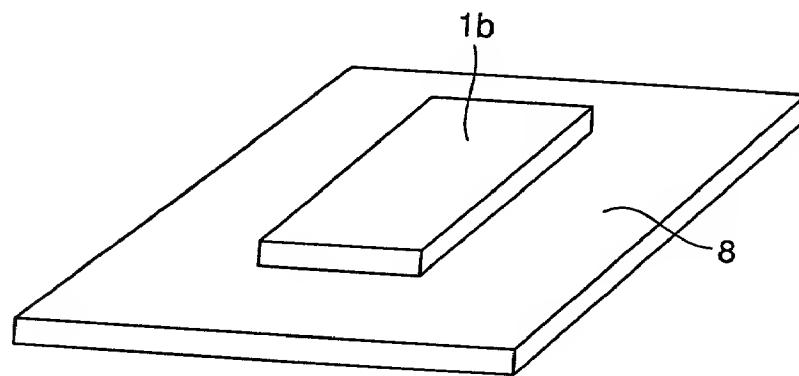
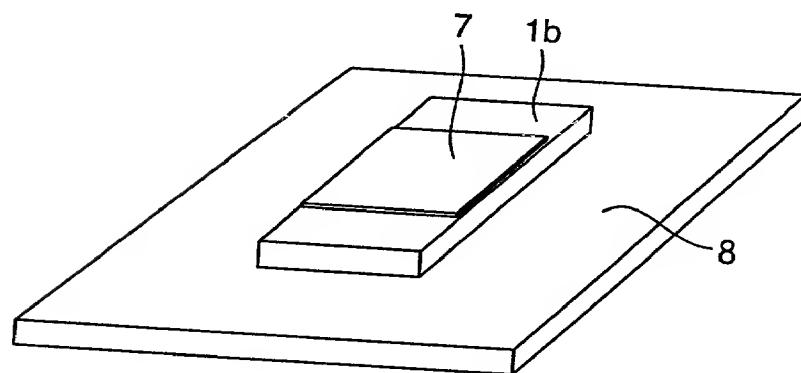


FIG. 3



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FIG. 4

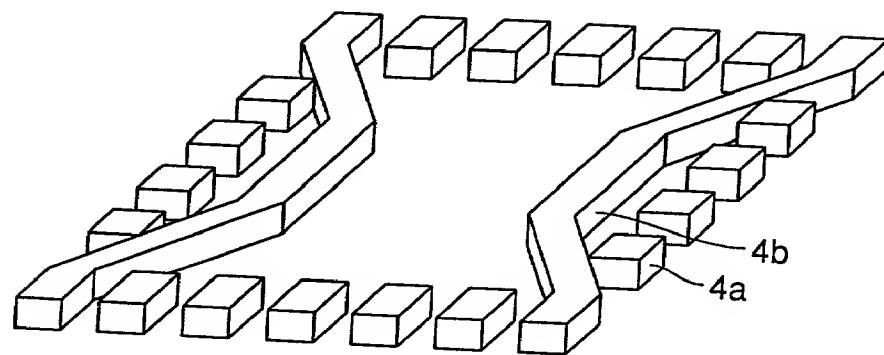


FIG. 5

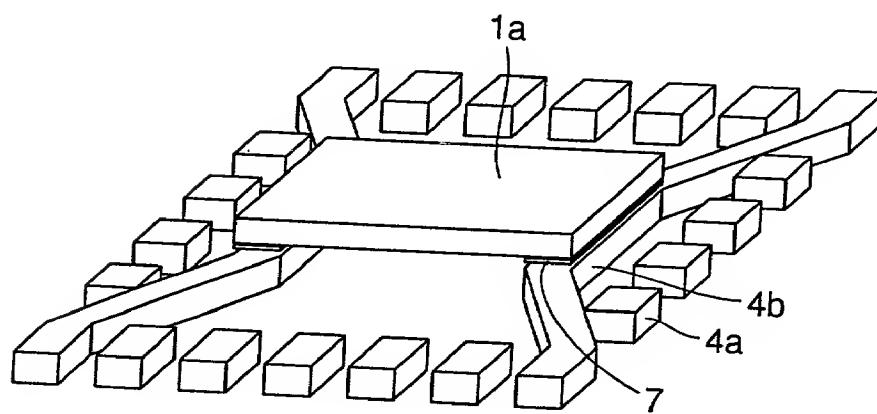


FIG. 6

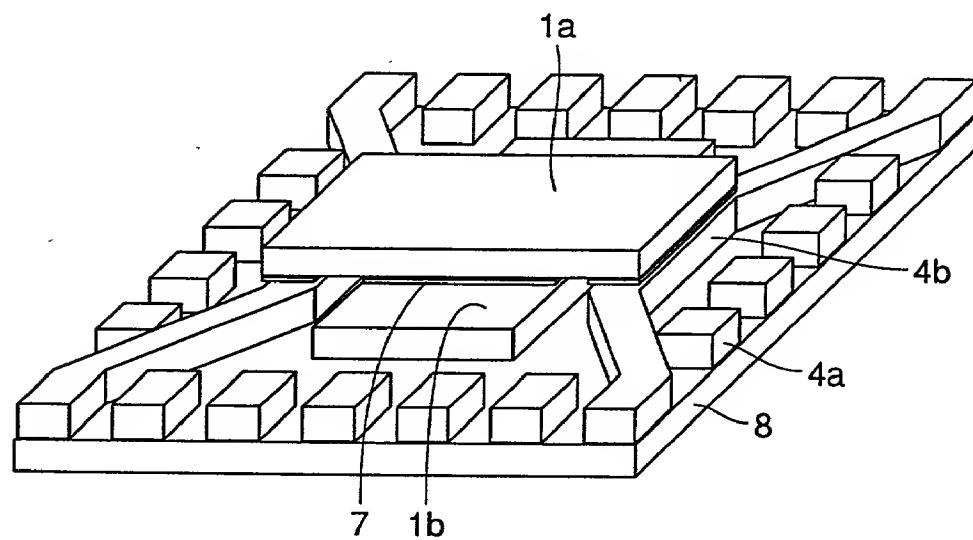
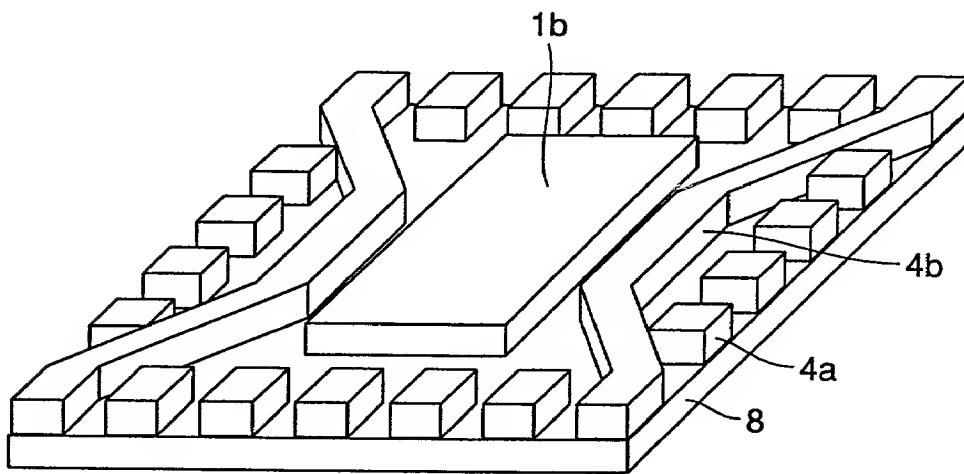


FIG. 7



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FIG. 8

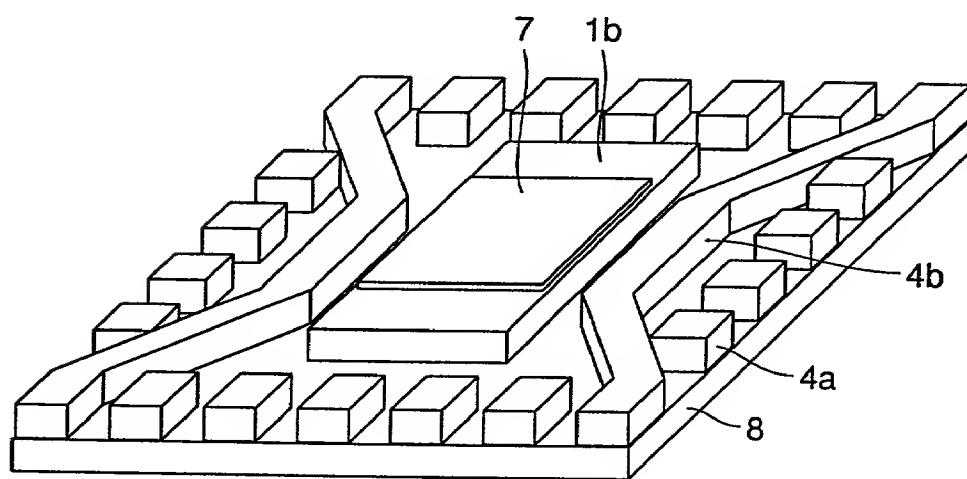
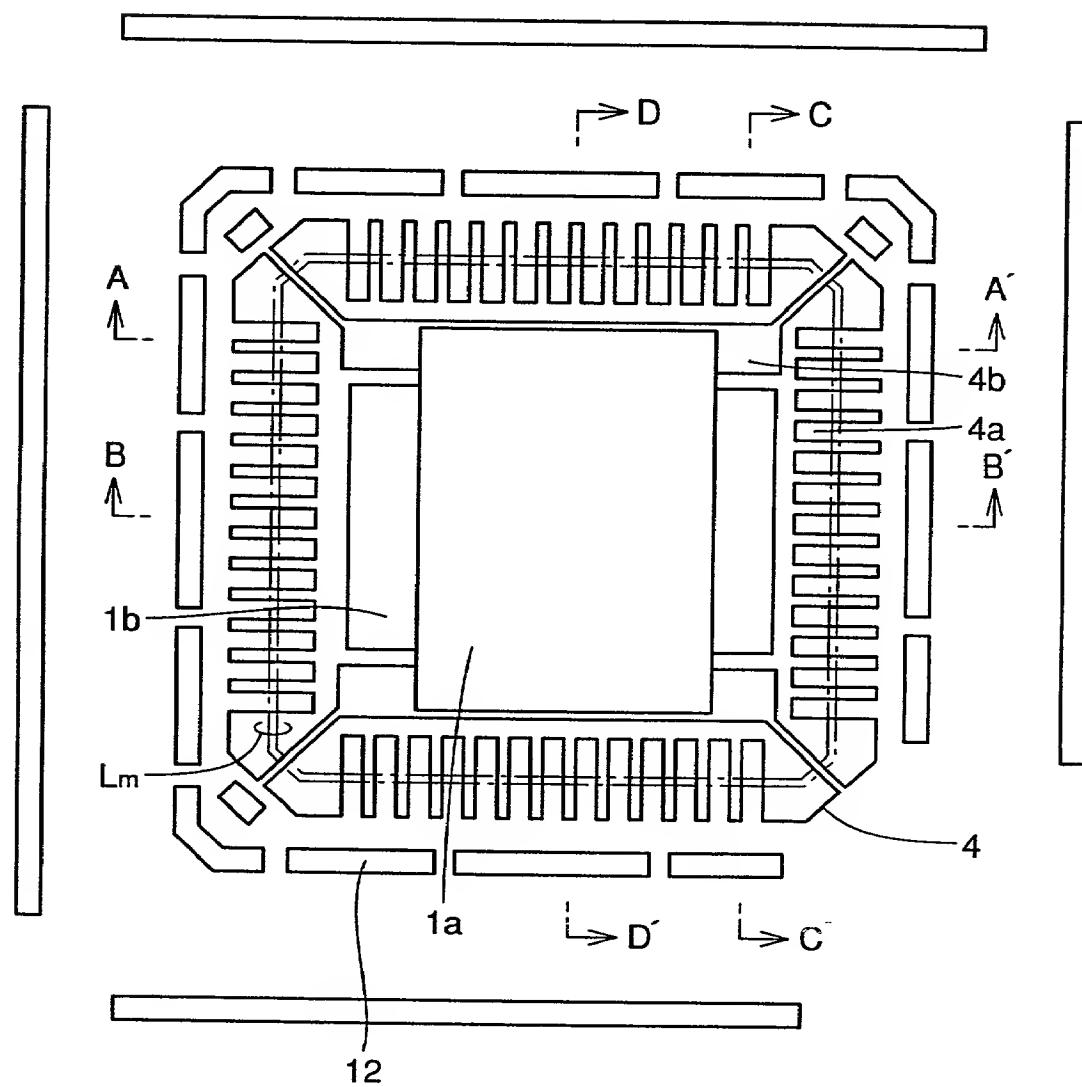


FIG. 9



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FIG. 10

A-A'

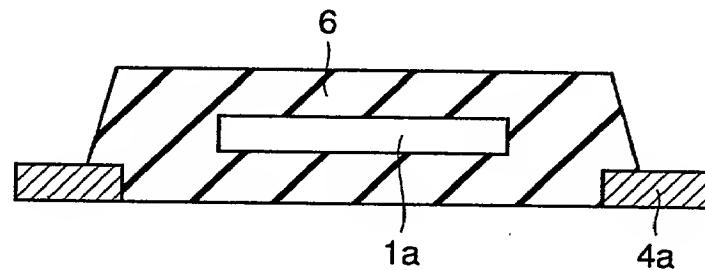


FIG. 11

B-B'

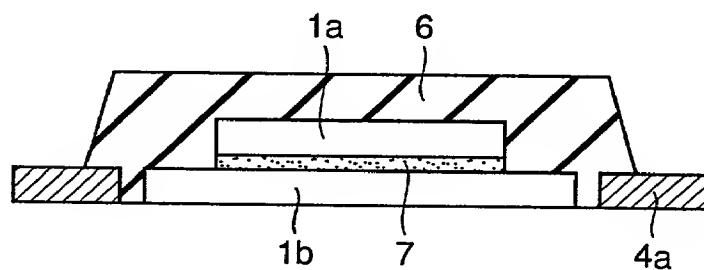
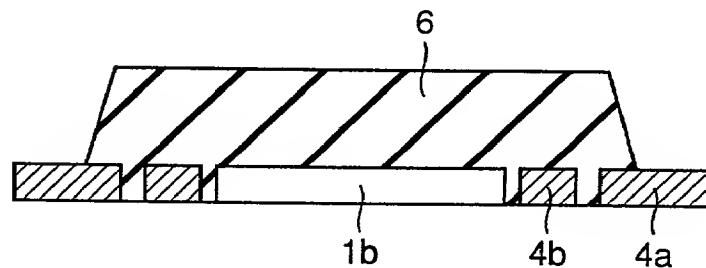


FIG. 12

C-C'



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FIG. 13

D-D'

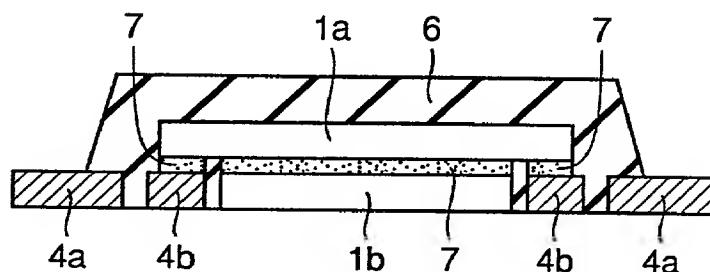


FIG. 14

A-A'

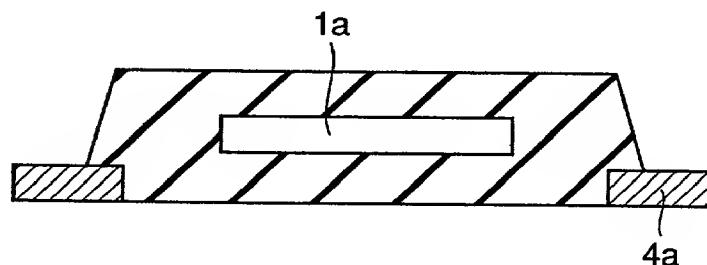


FIG. 15

B-B'

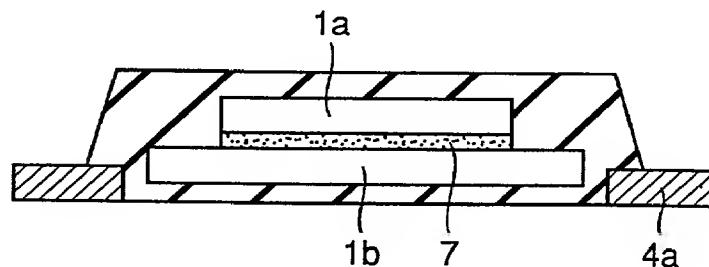


FIG. 16

C-C'

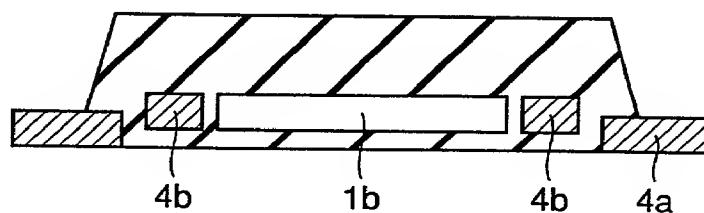


FIG. 17

D-D'

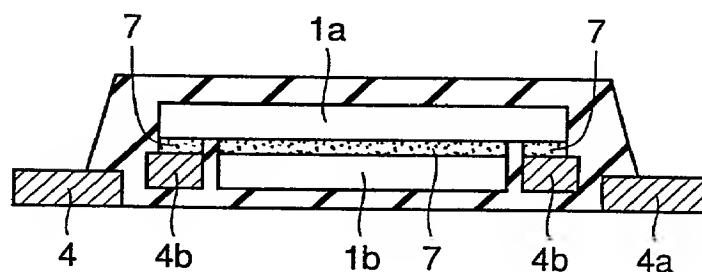


FIG. 18

A-A'

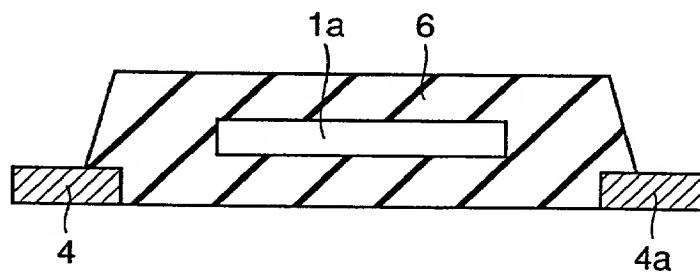


FIG. 19

B-B'

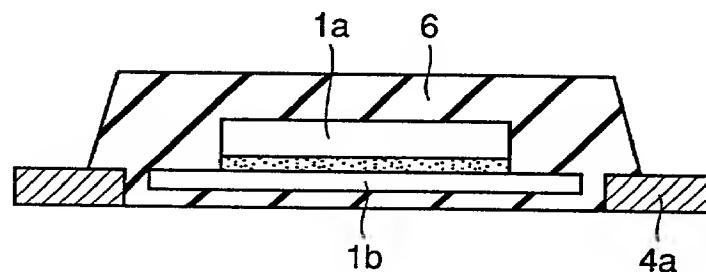


FIG. 20

C-C'

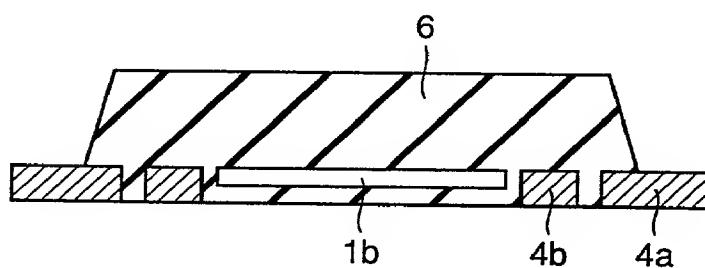


FIG. 21

D-D'

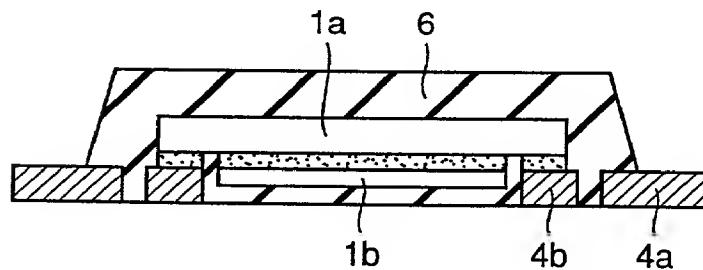
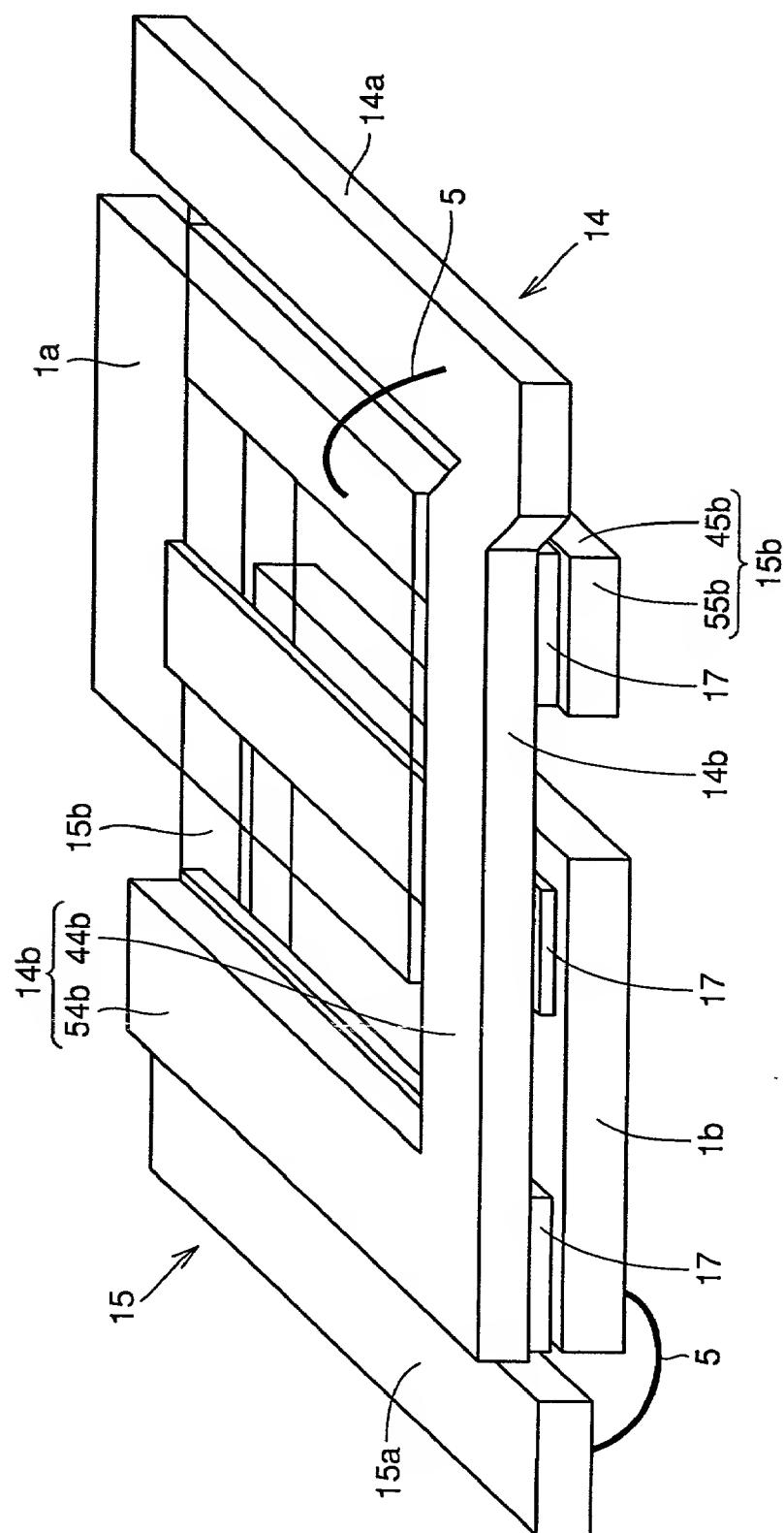


FIG. 22



Title: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

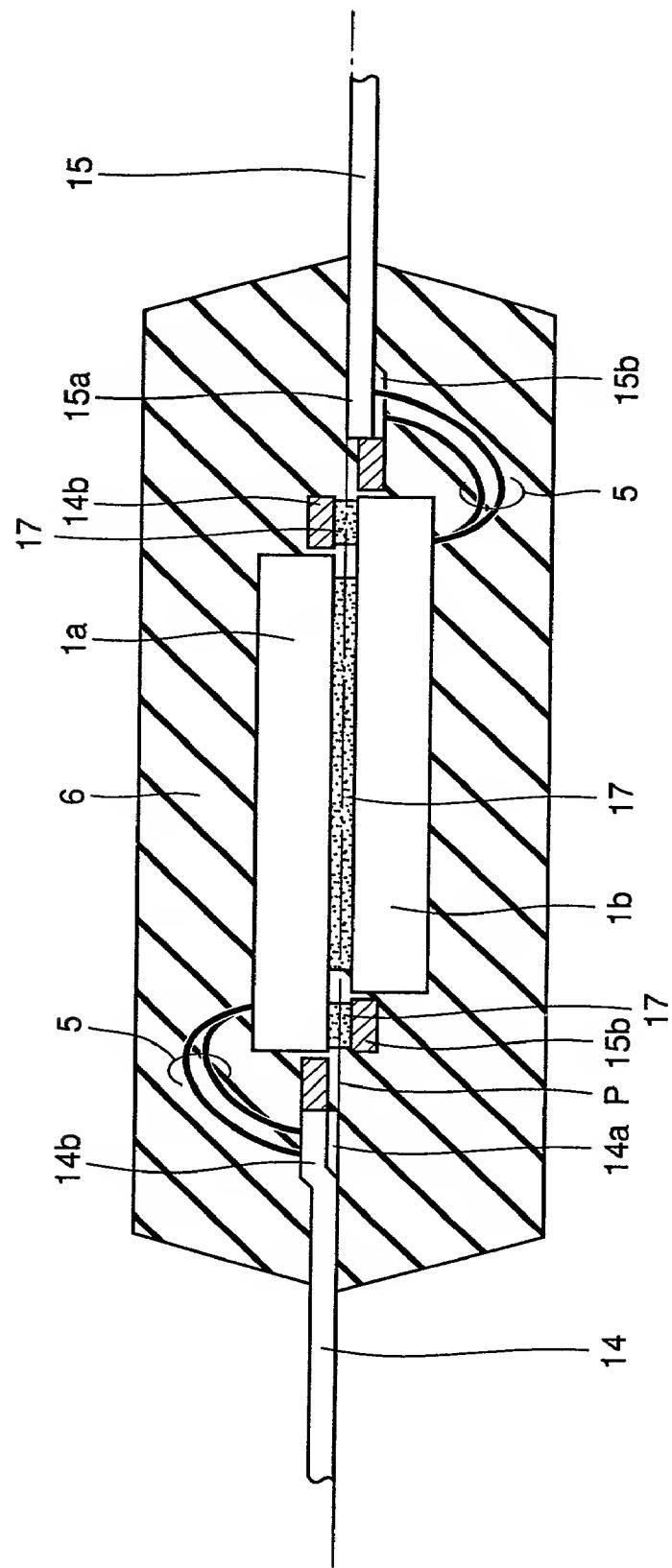
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FIG. 23



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FIG. 24

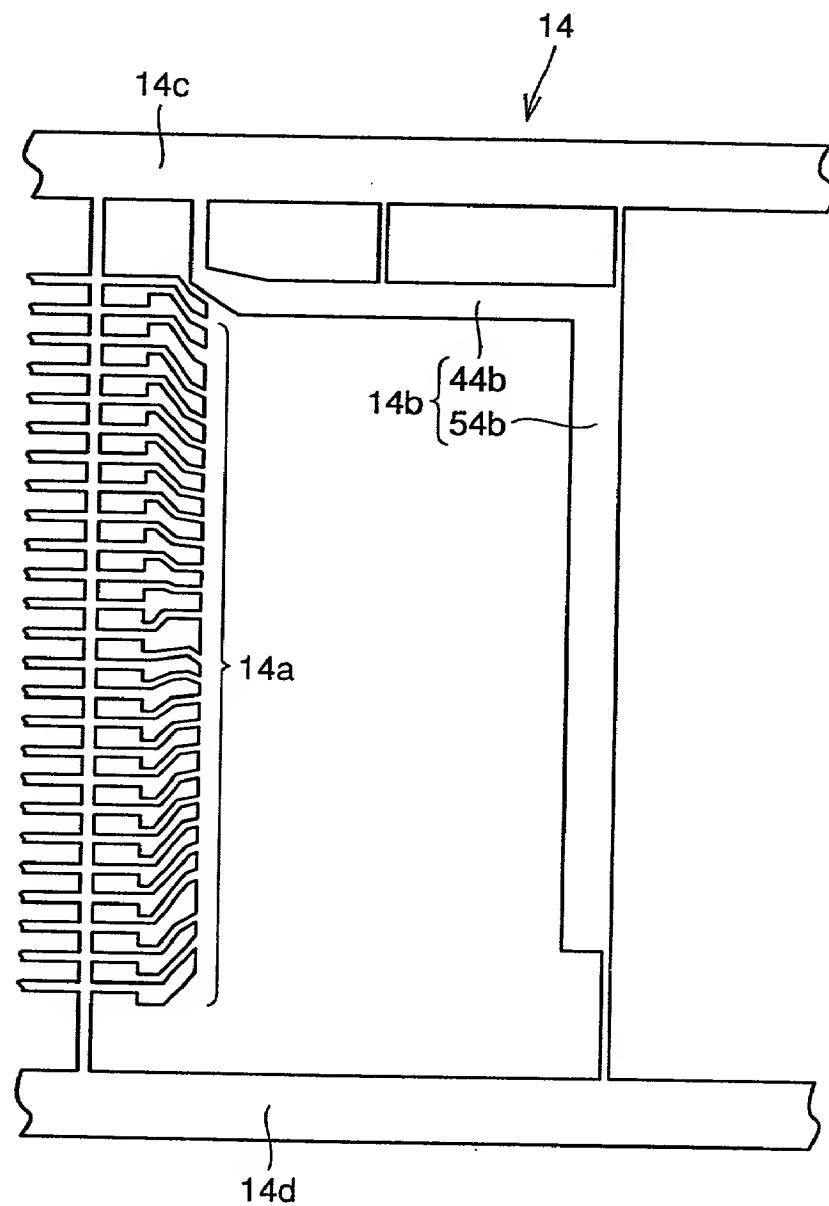
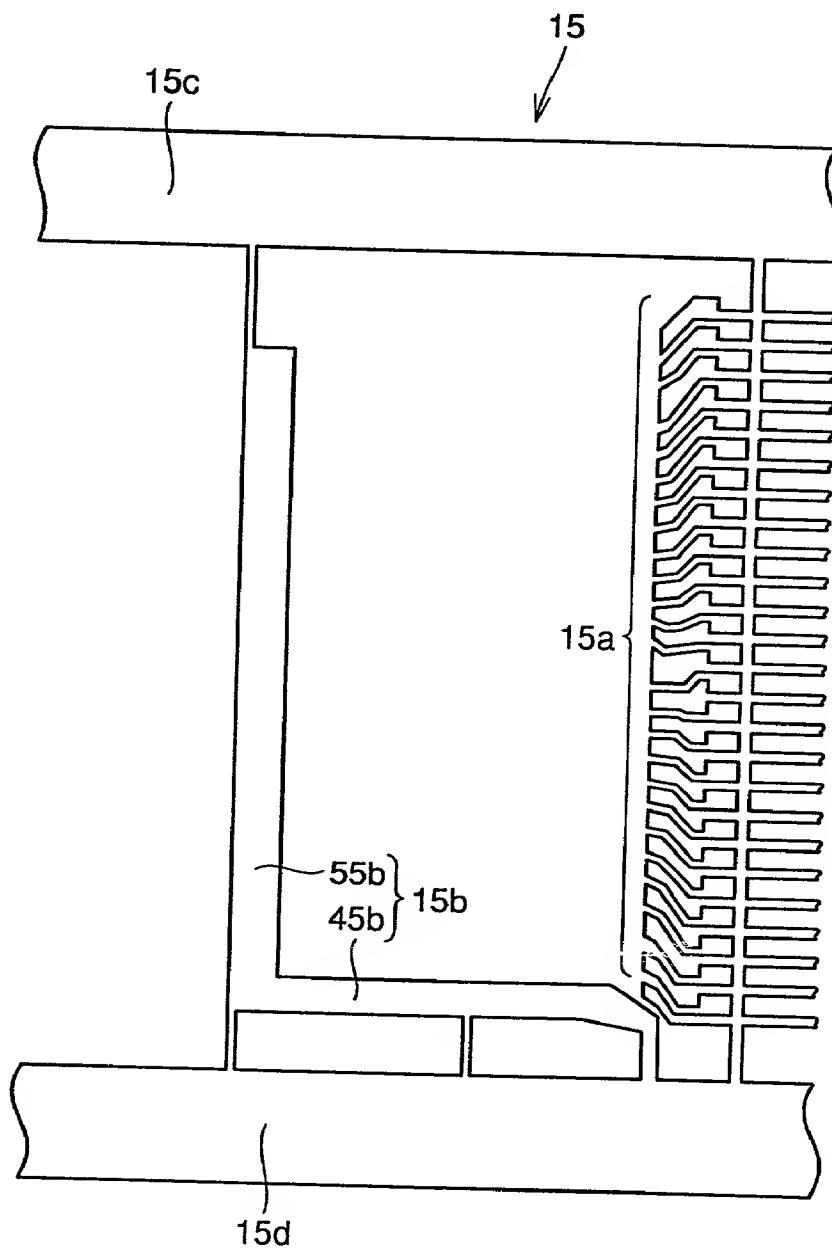
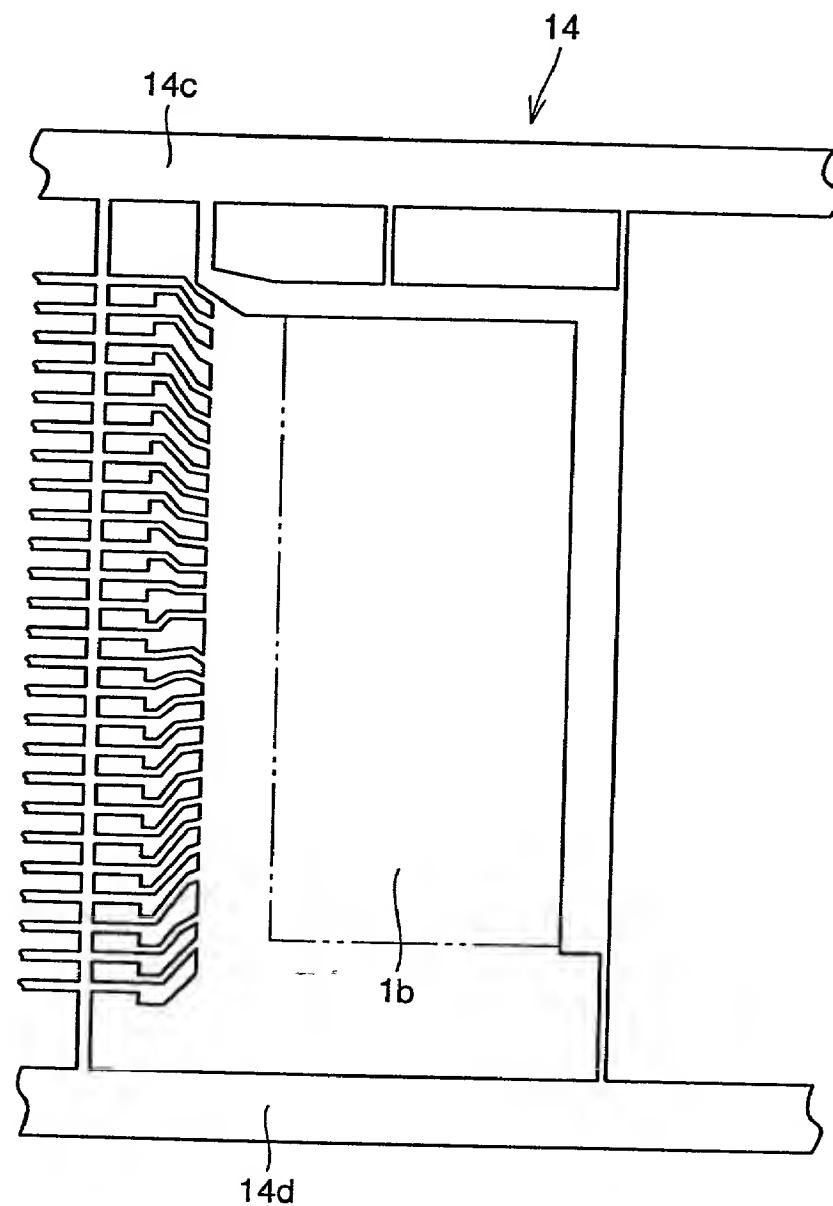


FIG. 25



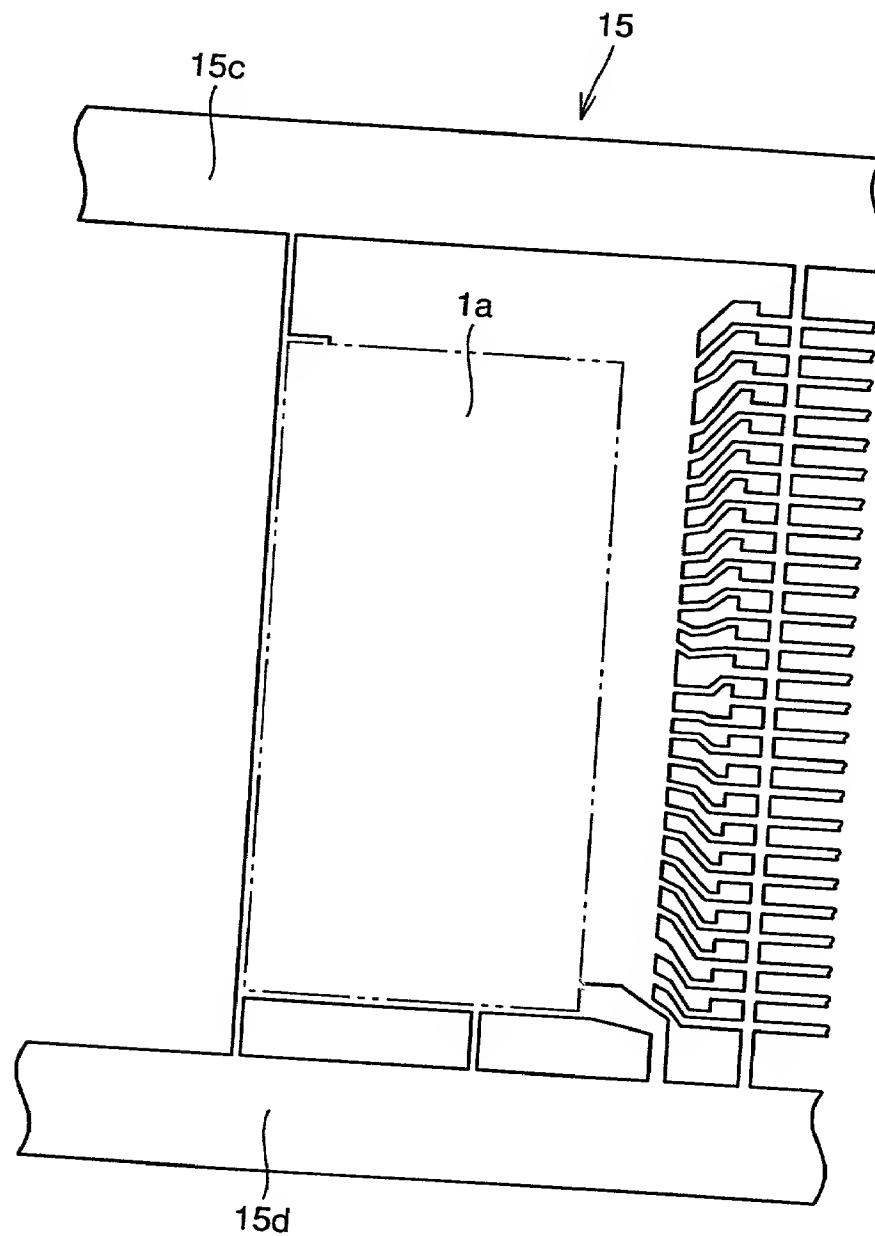
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FIG. 26



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FIG. 27



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FIG. 28

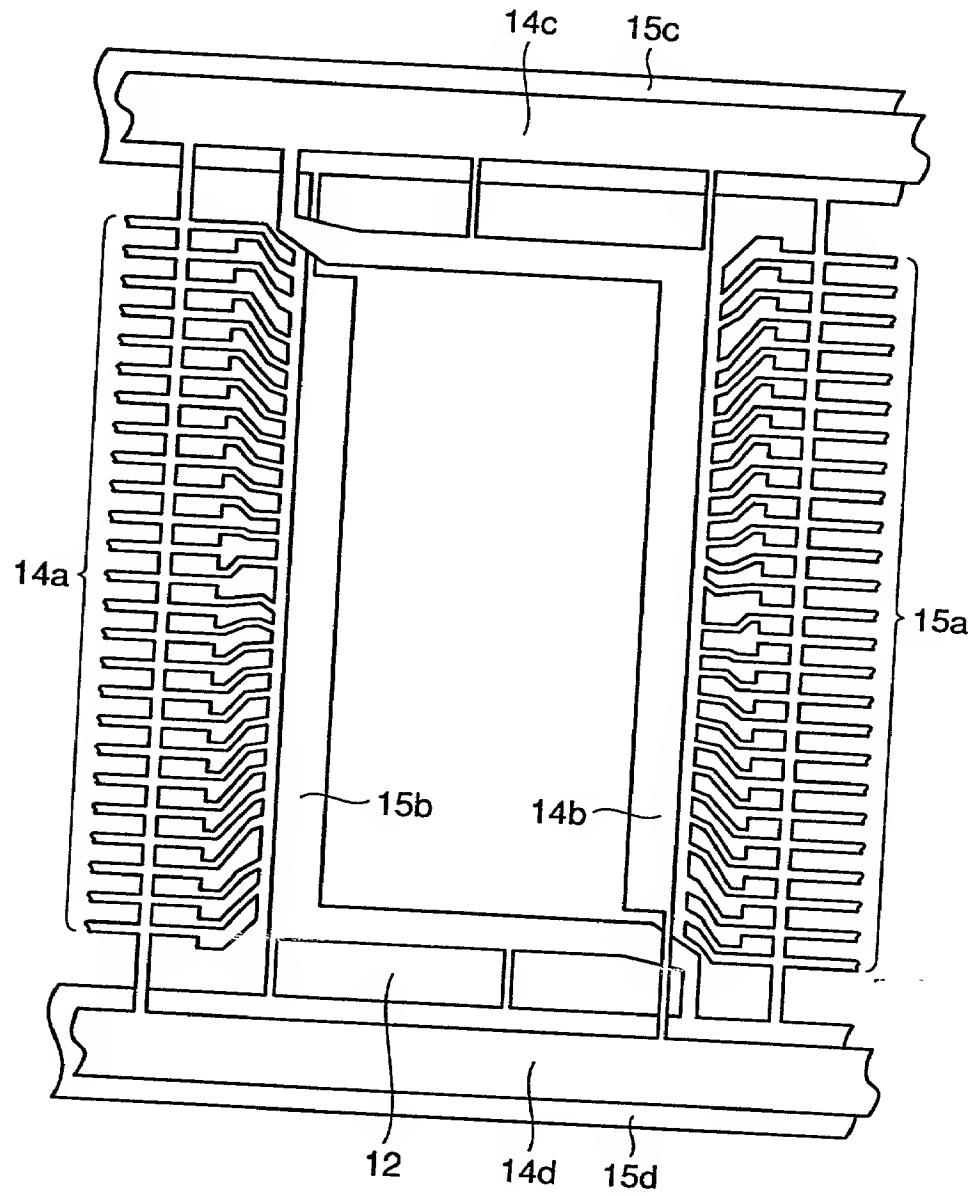
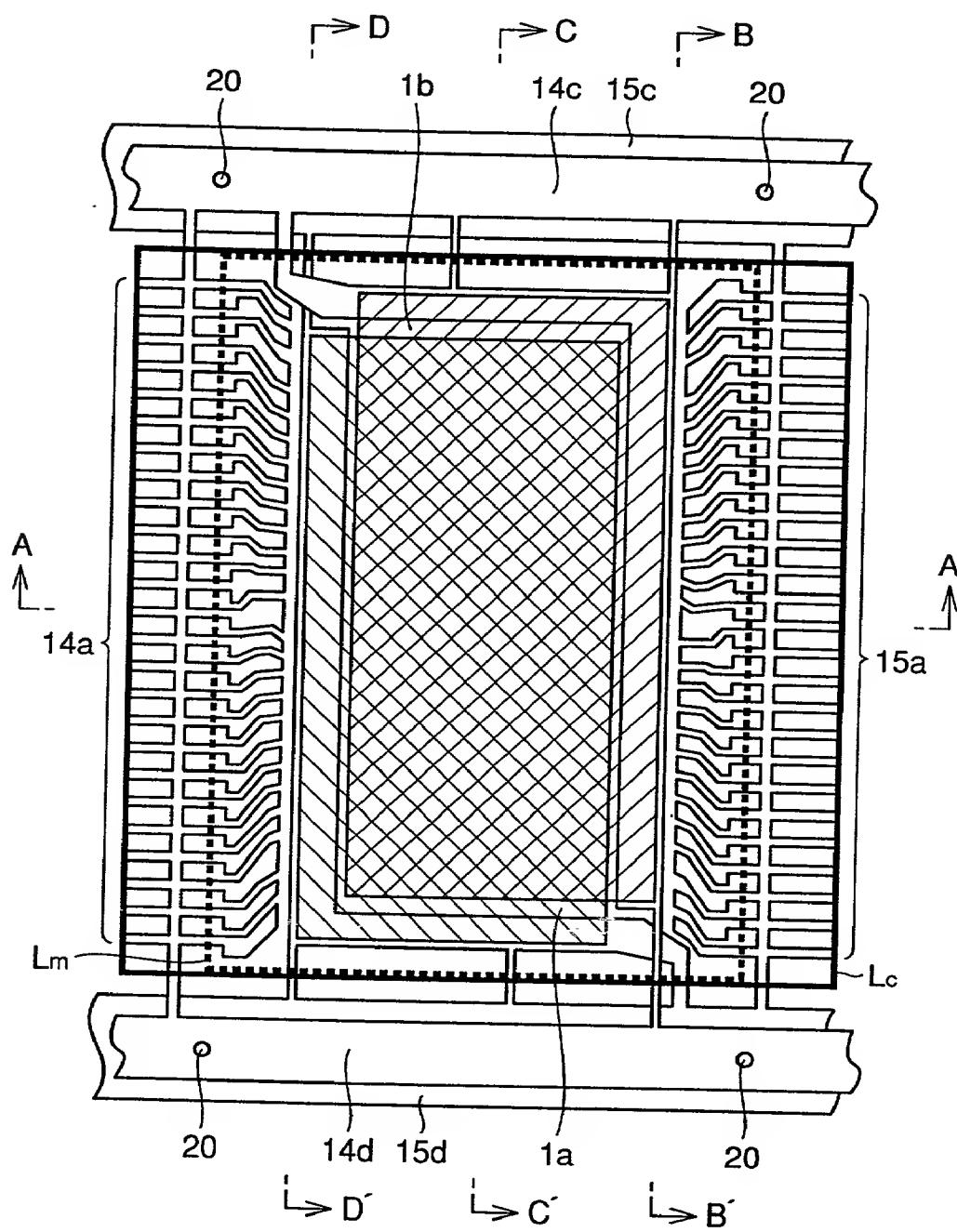


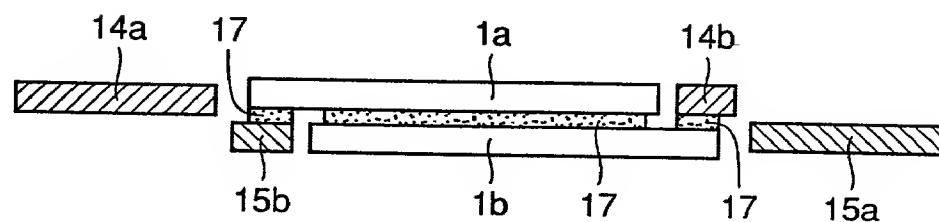
FIG. 29



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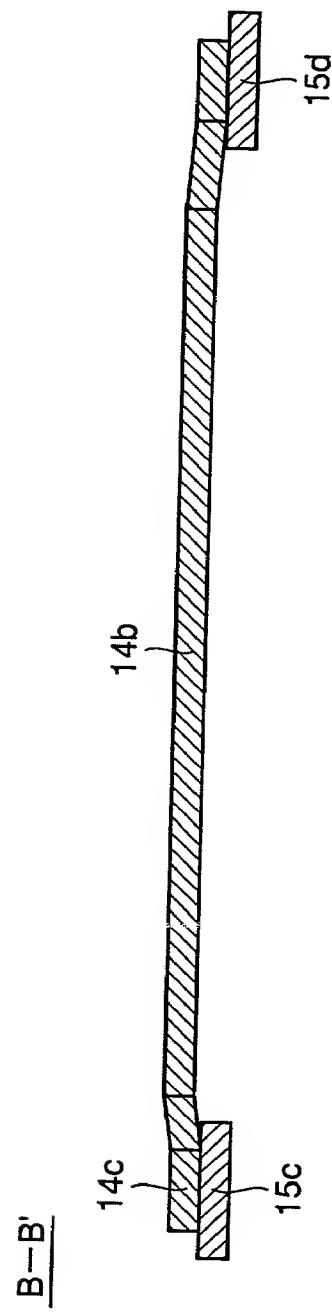
FIG. 30

A-A'



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FIG. 31



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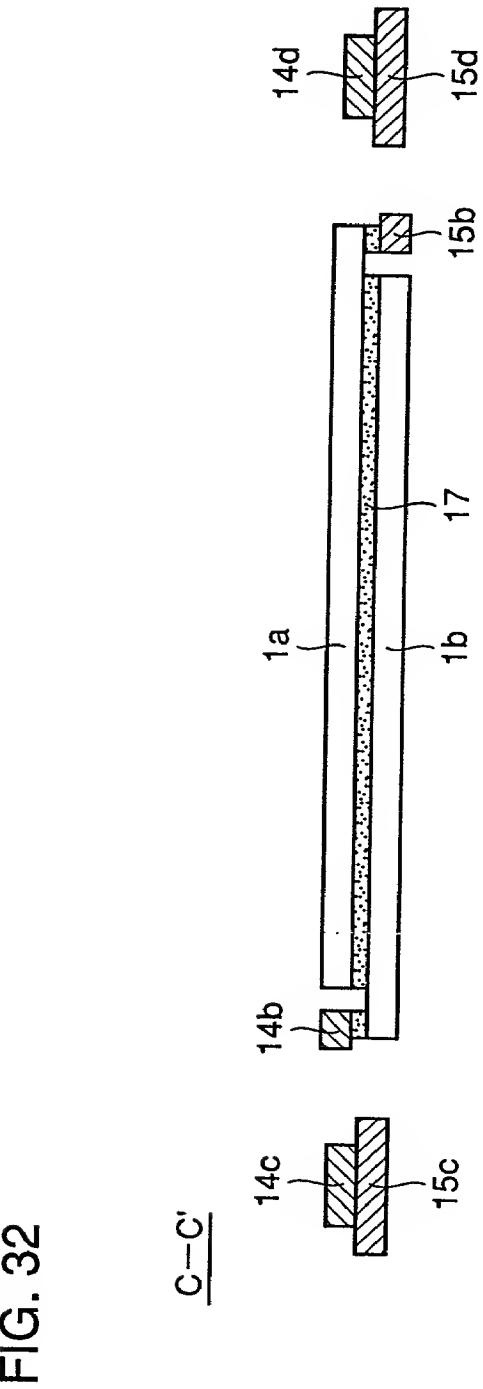
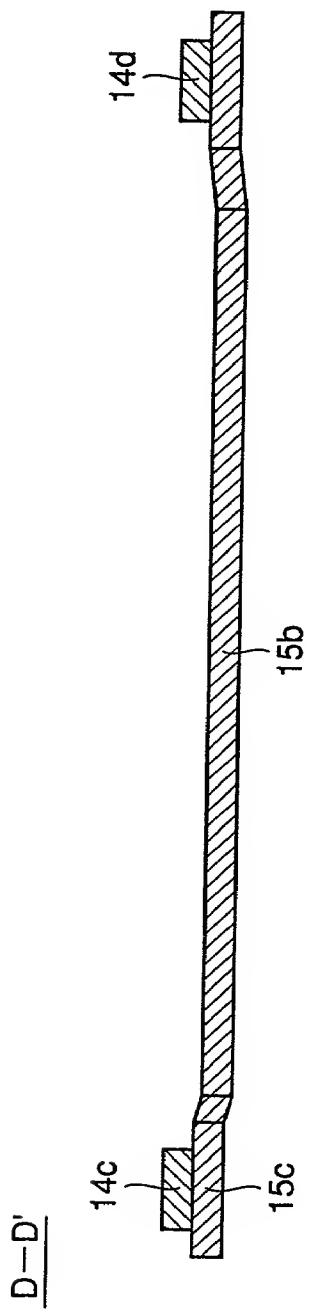


FIG. 32

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FIG. 33



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FIG. 34

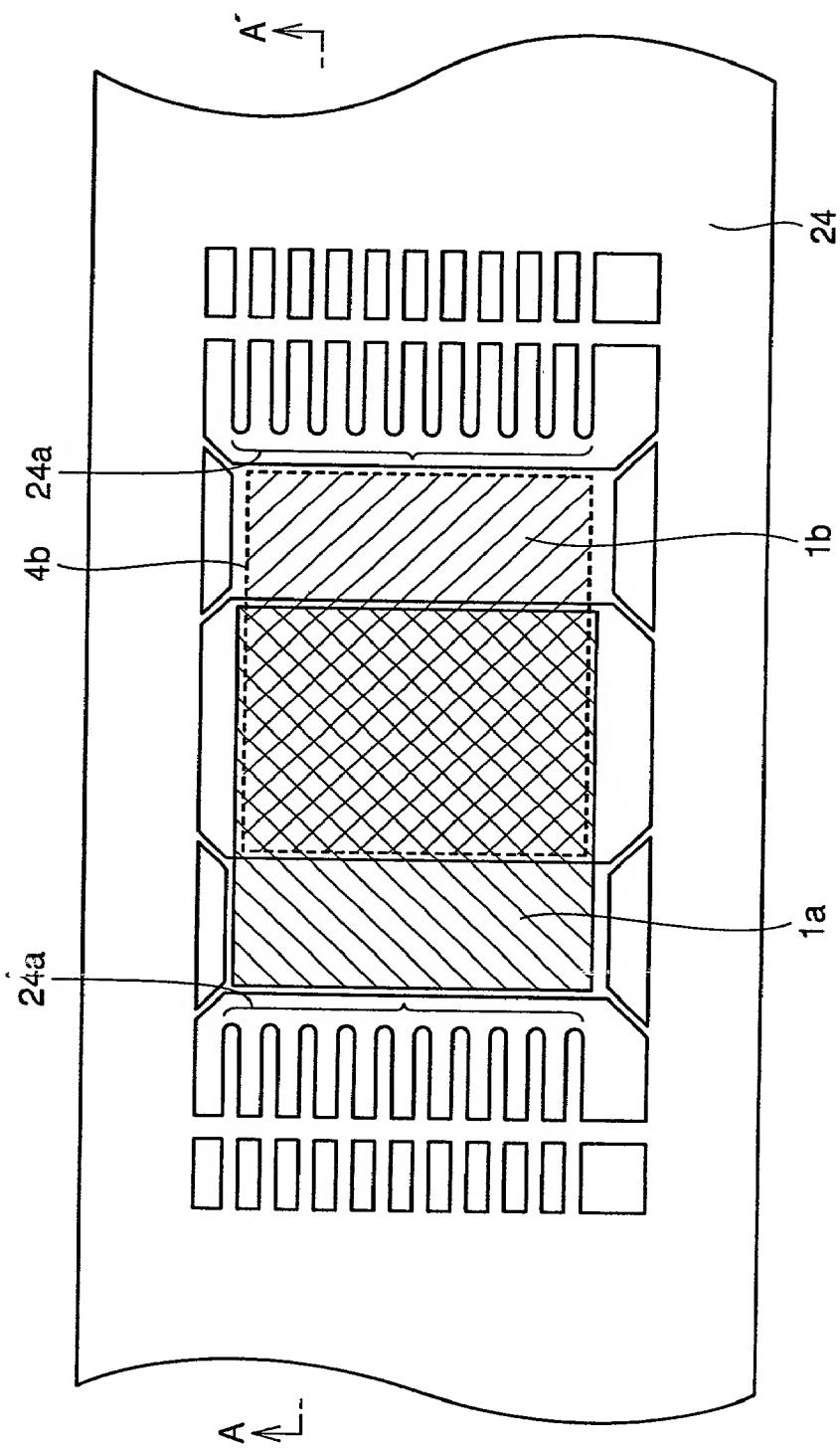


FIG. 35

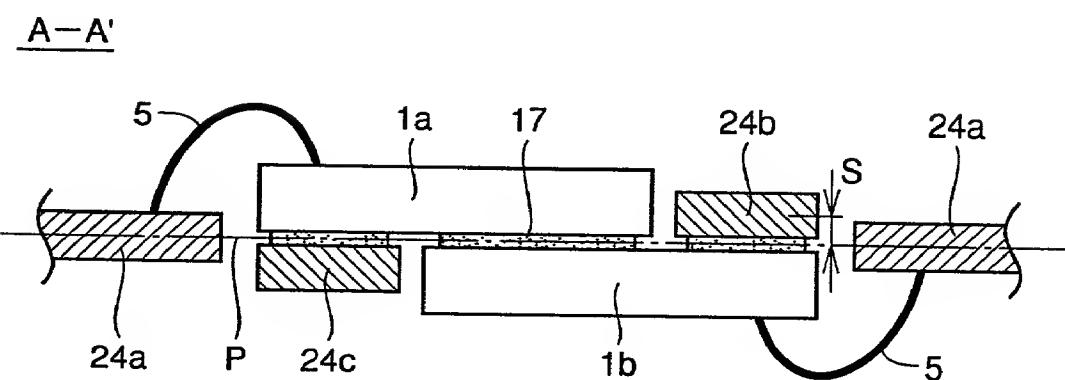


FIG. 36 PRIOR ART

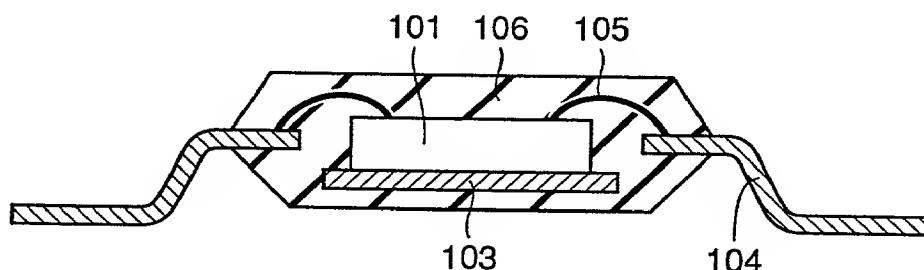


FIG. 37 PRIOR ART

